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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/501,270	0	7/09/2004	Jean-Pierre Germain	Serie 5831	6035		
7	590	12/27/2005		EXAMINER			
Air Liquide	Air Liquide				ALI, MOHAMMAD M		
Intellectual Pro	perty De	epartment					
2700 Post Oak		•	ART UNIT	PAPER NUMBER			
Ste. 1800			3744				
Houston, TX	77056		DATE MAILED: 12/27/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)				500				
Examiner		Application No.	Applicant(s)	cant(s)				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Setheration of this map to evaluation and 50°CR1-130°L, in to event, nower, may a rayly be timely filed. **B NO period for reply is specified above, the maximum shallutory period will apply and will expire 3K (8) MONTH 50°CNIC 130°C. **B NO period for reply is specified above, the maximum shallutory period will apply and will expire 3K (8) MONTH 56°CNIC 150°L SC 3. 13°C. **B NO period for reply is specified above, the maximum shallutory period will apply and will expire 3K (8) MONTH 56°CNIC 150°L SC 3. 13°C. **Failutes from the mailing date of this communication. **		10/501,270	GERMAIN, JEAN-PIERRE					
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Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "injection zone" for claims 39, 41 and 53 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 39-54 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "injection zone", does not reasonably provide enablement for "cross section of the injection zone is smaller than the spraying means". The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to "cross section of injection zone" the invention commensurate in scope with these claims. Since the cross section of the injection zone neither shown structurally nor described in the specification, it is not clear, how it can be smaller than the spraying means. On the other hand, from the Fig and nozzle 18 the cross section of spray looks greater than the nozzle 18.

Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain <u>a</u> patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 35 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 36. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is

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proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22-33 and 35-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Miller et al., (5,036,673). Miller et al., disclose a method and apparatus which may be used to cooling a stream of gaseous fluid comprising a mixing area/inner cylinder 12 through which the stream passes; at least one impact surface (fan blade 14) located inside the area 12; and a means 17 for spraying liquid nitrogen into the area 12; the spraying means 17 further comprising an injection zone for injecting the fluid into the area 12; wherein the injection zone has a cross section smaller than that of the portion of the area containing the impact surface and greater than that of the spraying means 17; while spraying through nozzle 17 increases the cross section of the flowing stream (see the flow stream at the nozzle 17), recovering the cooled fluid and applying the recovered fluid to objects (droplets of liquid egg/food stuff) 23 (or see column 5, lines 66-68) for cooling and freezing, the cooled fluid being cooled to between –40 degree C to –160 degree C (see claim 4). See Fig.1, column 4, line 4 to column 5 line 68.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miller et al., disclose the invention substantially as claimed as stated above.

However, miller et al., do not disclose chocolate. Miller et al., teach to cool liquid egg droplets (a food stuff similar to the claimed invention to cool chocolate an another food stuff). Therefore, Miller et al., obviously read the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is (571) 272-4806. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melba Bumgarner can be reached on (571) 272-4709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Mohammad M. Ali December 13, 2005